

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

Claims 4, 7-13, 17, 18 and 19 (old claim 20). (Canceled)

1. (Currently Amended) An isolated DNA comprising nucleotides encoding a polypeptide having an amino acid sequence selected from the group consisting of ~~SEQ.ID.NO.:~~ SEQ ID NO:3, ~~SEQ.ID.NO.:~~ SEQ ID NO:5, and ~~SEQ.ID.NO.:~~ SEQ ID NO:29.
2. (Currently Amended) The DNA of claim 1 comprising a nucleotide sequence selected from the group consisting of: ~~SEQ.ID.NO.:~~ SEQ ID NO:1, ~~SEQ.ID.NO.:~~ SEQ ID NO:2, ~~SEQ.ID.NO.:~~ SEQ ID NO:4, ~~SEQ.ID.NO.:~~ SEQ ID NO:28, positions 105-1,859 of ~~SEQ.ID.NO.:~~ SEQ ID NO:2, positions 105-1,409 of ~~SEQ.ID.NO.:~~ SEQ ID NO:4, and positions 11-1,663 of ~~SEQ.ID.NO.:~~ SEQ ID NO:28.
3. (Currently Amended) An isolated DNA comprising a sequence that is identical to ~~SEQ.ID.NO.:~~ SEQ ID NO:2 except that it contains a ~~different~~ different nucleotide at a position selected from the group consisting of positions 120, 121, 122, 357, 358, 359, 381, 382, 383, 783, 784, 785, 999, 1000, and 1001.
5. (Original) An expression vector comprising the DNA of claim 1.
6. (Original) A recombinant host cell comprising the DNA of claim 1.
14. (Currently Amended) A method of diagnosing whether a patient carries a mutation in the CG1CE gene that comprises:
  - (a) providing a DNA sample from the patient;
  - (b) providing a set of PCR primers based upon ~~SEQ.ID.NO.:~~ SEQ ID NO:2 or ~~SEQ.ID.NO.:~~ SEQ ID NO:4;

(c) performing PCR on the DNA sample to produce a PCR fragment from the patient;

(d) determining the nucleotide sequence of the PCR fragment from the patient;

(e) comparing the nucleotide sequence of the PCR fragment from the patient with the nucleotide sequence of ~~SEQ.ID.NO.:~~ SEQ ID NO:2 or ~~SEQ.ID.NO.:~~ SEQ ID NO:4;

~~where a difference between the nucleotide sequence of the PCR fragment from the patient with the nucleotide sequence of SEQ.ID.NO.:2 or SEQ.ID.NO.:4 indicates that the patient carries a mutation in the CG1CE gene wherein a sequence of nucleotides of that differ from one of said SEQ ID NO:1 or SEQ ID NO:2 indicates that said patient carries a mutation in the CG1CE gene .~~

15. (Currently Amended) The method of claim ~~15~~ 14 where the DNA sample is genomic DNA.

16. (Currently Amended) The method of claim ~~15~~ 14 where the DNA sample is cDNA.